Appl. No.

: 09/835,830

Filed

April 16, 2001

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A race car virtual reality simulator in which substantially all of the components are mounted within the simulator comprising:

a chassis constructed from welded steel tubes and shaped aluminum sheets;

a body of fiber-reinforced plastic;

a tube frame cockpit having a steering wheel, <u>a floor board</u>, other automobile controls, and one or more seats;

a hood hinged at the front of said race car simulator;

first and second mirrors;

a computer projector mounted below or partially below the floor board of the cockpit, said projector mounted to project a computer display image onto said first mirror;

a rear projection screen;

said first mirror mounted to project the computer display image onto said second mirror and said second mirror mounted to project the computer display image onto the rear of said rear projection screen; and

a spherical third mirror mounted to the underside of said hood, said third mirror comprising a spherical mirror to provide the viewer with an enlarged life-like image of the rear projection screen when said hood is raised, said spherical mirror comprising a thin acrylic sheet molded to the desired curvature, a mirror surface on one side of said sheet, and a sheet of foam plastic scored on one side so that the foam plastic sheet conforms to the curvature of said molded acrylic mirror, said scored foam plastic sheet bonded to the back of said acrylic mirror;

said first and second mirrors rotatably attached to said chassis and rotatable from a first position where said hood is closed to a second position where said hood is raised.

2. (Currently Amended) A race car virtual reality simulator in which substantially all of the components are mounted within the simulator comprising:

a chassis constructed from welded steel tubes and shaped aluminum sheets;

a body of fiber-reinforced plastic;

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a tube frame cockpit having a steering wheel, other automobile controls, and one or more seats;

a hood hinged at the front of said race car simulator;

first and second mirrors;

a computer projector mounted below or partially below the floor board of the cockpit, said projector mounted to project a computer display image onto said first mirror;

a rear projection screen;

said first mirror mounted to project the computer display image onto said second mirror and said second mirror mounted to project the computer display image onto the rear of said rear projection screen; and

a spherical-third mirror mounted to the underside of said hood, said third mirror comprising a spherical mirror to provide the viewer with an enlarged life-like image of the rear projection screen when said hood is raised.

3. (Currently Amended) A race car virtual reality simulator <u>providing a computer</u> display image to the eyes of a viewer seated within said simulator comprising:

a computer;

a projector coupled to said computer mounted below said eyes of the viewer;

an optics system having first and second mirrors;

a real projection screen; and

a spherical mirror mounted to reflect the viewer the image of said rear projection screen:

said optics system folding the said computer display image two times.

4. (Currently Amended) A race virtual reality simulator <u>providing an image to the eyes of a viewer seated within said simulator</u> comprising:

a projector mounted below the said eyes of the viewer;

a rear projection screen mounted below the eyes of the viewer onto which the projector projects an image; and

a spherical mirror mounted to reflect the image of said rear projection screen to the eyes of the viewer. Appl. No. : 09/835,830 Filed : April 16, 2001

- 5. (Currently Amended) An apparatus for providing <u>users of said apparatus</u> a display system and user interface for an interactive computer system comprising an enclosed cockpit in a vehicle, a display system having a view of a computer generated simulation environment, and an interface for providing communication from the user to the interactive computer system.
- 6. (Original) The apparatus recited in claim 5, further comprising a dimensional sound system.
- 7. (Currently Amended) The apparatus recited in claim 5, further comprising a said cockpit for an interactive computer system comprising a covered frame housing, and located within said covered frame and housing a dimensional sound system, an infinity optics display system, and an interface for providing communication from the user to the interactive computer system.
- 8. (Currently Amended) The cockpit recited in claim 7, wherein the said covered frame and housing are is totally enclosed in a themed said vehicle as part of the immersive simulated experience.
- 9. (Original) The cockpit recited in claim 6, wherein the dimensional sound system is a quadraphonic sound balanced three-dimensional (3D) localization system.
- 10. (Currently Amended) The apparatus of claim 5, further comprising a plurality of fully configurable prearranged interactive displays.
 - 11. (Canceled)
- 12. (Original) The apparatus of claim 5, wherein the display system is an infinity optics display system unaffected by ambient light.
- 13. (Currently Amended) The apparatus of claim 5, wherein the said plurality of fully configurable interactive displays is are configured with bitmaps through a digital projector with a single lens.
 - 14. (Withdrawn) A curved mirror comprising:a thin acrylic sheet molded to the desired curvature;a mirror surface on one side of said sheet;
 - a sheet of foam plastic scored on one side so that the foam plastic sheet conforms to the curvature of said molded acrylic mirror, said scored foam plastic sheet bonded to

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the back of said acrylic mirror to rigidly support said acrylic sheet in said desired curvature.

15. (Withdrawn) A method for making a curved mirror comprising: molding a thin acrylic sheet to the desire curvature; vacuum plating a mirror surface to one side of said acrylic sheet;

Scoring one side of a sheet of foam plastic so that said sheet will conform to the curvature of said acrylic sheet; and

bonding said sheet of foam plastic to the opposite side of said acrylic sheet.